

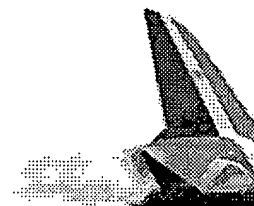
# Electronic Alloys UK

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Home

VISA



Cupro - Nickel  
Nickel 200 and 201  
Nickel Chrome  
Tungsten  
Alloy 47/50

HYMU 80  
Nickel 400 and 404  
Nickel Silver  
Alloy 42 - F30  
Alloy 48

Kovar  
Nickel 500  
Stainless 300 Series  
Invar 36  
Alloy 49

Molybdenum  
Nickel 600, 601, 625  
Tantalum  
Alloy 45  
Alloy 52

Mumetal  
Nickel 718 and 750  
Titanium  
Alloy 46  
OFHC Copper

## NICHROME 80/20 A

Nichrome 80/20 A is a resistance alloy used in electric heating applications. It is recommended for use in dry air applications up to 2150°F with good hot strength.

### NOMINAL DATA SHEET

#### NOMINAL COMPOSITION:

Chromium - 19.5%	Manganese - .40%
Silicon - 1.25%	Nickel - Balance
Iron - .50%	

#### TYPICAL MECHANICAL PROPERTIES

(ANNEALED)

Ultimate Tensile Strength	105,000 PSI
Yield Strength (.2% Offset)	50,000 PSI
Elongation in 2" *	35 %
Modulus of Elasticity (Tension)	31 x 10 <sup>6</sup> PSI

\* - The measured elongation will be less as thickness decreases to .002" and less.

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#### PHYSICAL PROPERTIES:

Density.....	0.304 lbs/cu/in.
Melting Point(Approx.).....	1400°C
Electrical Resistivity @ R.T. ....	108 Microhm/cm
Temperature Coefficient of Resistivity..	100 ppm/°C
(25°C to 105°C)	
Thermal Expansion Coefficient.....	13.4 x 10 <sup>-6</sup> /°C
(20°C to 100°C)	
Thermal Conductivity @ 100°C.....	15.0 W/m·K

Magnetic Attraction..... None

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### **Disclaimer**

Every effort is made to ensure that technical specifications are accurate. However, technical specifications included herein should be used as a guideline only. All specifications are subject to change without notice.

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